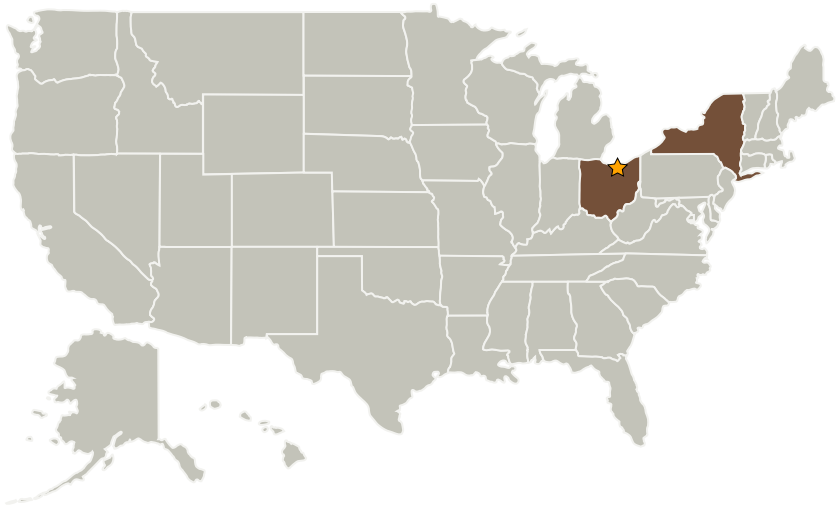
Surface System Dust Mitigation, Phase I

Completed Technology Project (2008 - 2008)

Project Introduction

The proposed effort will perform a detailed examination of dust mitigation and tolerance strategies for connections and mechanisms to be employed on the lunar surface. These strategies will be examined by characterizing the effects of lunar dust simulants on the function of basic mechanical and electrical components, and the effectiveness of tolerance or mitigation strategies in lessening those effects. The project will be led by Honeybee Robotics, with consultation and support from Dr. Masami Nakagawa of the Colorado School of Mines as well as consultation with Hamilton Sundstrand Space Systems International, Inc.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★Glenn Research Center(GRC)	Lead Organization	NASA Center	Cleveland, Ohio
Honeybee Robotics, Ltd.	Supporting Organization	Industry	Pasadena, California

Primary U.S. Work Locations	
New York	Ohio

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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Glenn Research Center (GRC)

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

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Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Principal Investigator:

Jason Herman

Technology Areas

Primary:

- TX07 Exploration Destination Systems
  - TX07.2 Mission Infrastructure, Sustainability, and Supportability
    - TX07.2.5 Particulate Contamination Prevention and Mitigation